

PATENT

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Ha _ lee

Harry Lee

Applicant: BAMDAD, Cynthia C.

Serial No.: 10/823,097 Filed: 04/13/2004 Confirmation No.: 3158

Title: RAPID AND SENSITIVE DETECTION OF PROTEIN

AGGREGATION Examiner: Pensee T. Do

Art Unit: 1641

Attorney Docket No.: M1015.70013US01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed below and on the attached forms PTO/SB/08A and PTO/SB/08B (substitutes for form 1449/PTO) are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. Copies of the cited documents are enclosed.

English Language Documents:

US 5,137,827, MROCZKOWSKI et al., August 11, 1992

US 5,922,537, EWART et al., July 13, 1999

US 5,958,783, JOSEL et al., September 28, 1999

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US 5,324,633, FODOR et al., June 28, 1994

US 5,512,131, KUMAR et al., April 30, 1996

US 5,620,850, BAMDAD et al., April 15, 1997

US 5,620,820, BERTRAND et al., April 15, 1997

WO 98/31839 A2, BAMDAD, July 23, 1998

WO 98/37421 A1, MAGGIO et al., August 27, 1998

WO 99/08695 A1, GLABE et al., February 25, 1999

WO 00/43791 A2, BAMDAD et al., July 27, 2000

WO 96/29629 A2, WHITESIDES et al., September 26, 1996

SIGAL et al., "Self-Assembled Monolayer for the Binding and Study of Histidine-Tagged Proteins by Surface Plasmon Resonance", *Analytical Chemistry* (1996), 68(3): 490-497

TERZI et al., "Interaction of Alzheimer Beta-Amyloid Peptide(1-40) with Lipid Membranes", Biochemistry (1997), 36(48): 14845-14852

LANSBURY, "Evolution of amyloid: What normal protein folding may tell us about fibrillogenesis and disease", *Proc. Natl. Acad. Sci. USA* (1999), 96: 3342-3344

JARRETT et al., "The carboxy terminus of the beta amyloid protein is critical for the seeding of amyloid formation: implications for the pathogenesis of Alzheimer's disease", *Biochemistry* (1993), 32(18): 4693-4697

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LAIBINIS et al., "Orthogonal Self-Assembled Monolayers: Alkanethiols on Gold and Alkane Carboxylic Acids on Alumina", Science (1989), 245: 845-847.

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BAIN et al., "Formation of Monolayers by the Coadsorption of Thiols on Gold: Variation in the Head Group, Tail Group, and Solvent", J. Am. Chem. Soc. (1989), 111(18): 7155-7164

SANNA et al., "Localization of a Passively Transferred Human Recombinant Monoclonal Antibody to Herpes Simplex Virus Glycoprotein D to Infected Nerve Fibers and Sensory Neurons In Vivo", Journal of Virology (1999), 73(10): 8817-8823

AKERSTROM et al.; "Definition of IgG—and albumin-binding regions of streptococcal protein G", J. Biol. Chem. (1987), 262(28): 13388-13391

FAHNESTOCK et al., "Gene for an Immunoglobulin-Binding Protein from a Group G Streptococcus", Journal of Bacteriology (1986), 167(3): 870-880

WOLFE et al., "Two transmembrane aspartates in presenilin-1 required for presenilin endoproteolysis and y-secretase activity", *Nature* (1999), 398: 513-517

LEBLANC et al., "Role of amyloid precursor protein (APP): Study with antisense transfection of human neuroblastoma cells", *J. Neurosci. Res.* (1992), 31(4): 635-645 (abstract only)

SELKOE, "The cell biology of beta-amyloid precursor protein and presentilin in Alzheimer's disease", Cell Biology (1998), 8: 447-453

KNOPS et al., "Cell-type and Amyloid Precursor Protein-type Specific Inhibition of A Release by Bafilomycin A1, a Selective Inhibitor of Vacuolar ATPases", J. Biol. Chem. (1995), 270(6): 2419-2422

HAASS et al., "The Swedish mutation causes early-onset Alzheimer's disease by beta-secretase cleavage within the secretory pathway", Nat. Med. (1995), 1(12): 1291-1296 (abstract only)

It is respectfully requested that the Examiner indicate consideration of the cited references by returning copies of the attached forms PTO/SB/08A and PTO/SB/08B (substitutes for form 1449/PTO) with initials or other appropriate marks, and that the references be made of record as cited references in the application.

Also submitted herewith are copies of the International Search Report and International for counterpart application Examination Report international PCT/US/01/20232 (International Publication No. WO 02/001230 A3).

The Commissioner is authorized to charge JHK Law's Deposit Account No. 502486 for any fees required under 37 CFR §§ 1.16 and 1.17 and to credit any overpayment to said Deposit Account No. 502486.

Respectfully submitted,

November 18, 2005

Date

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Reg. No. 41,425

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Under the Paperwork Reduction Act of 1995. TRANSMITTAL FORM (to be used for all correspondence after initial file.)	no de son:	U.S. Paten sare required to respond to a collection Application Number Filing Date First Named Inventor Art Unit Examiner Name	Approved for use through 07/31/2006. OMB 0651-003 at and Trademark Office; U.S. DEPARTMENT OF COMMERC on of information unless it displays a valid OMB control number 10/823,097 04/13/2004 BAMDAD, Cynthia C. 1641 Pensee T. Do
Total Number of Pages in This Submission	8	Attorney Docket Number	M1015.70013US01
	ENC	OSURES (Check all that	t apply)
Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53	Remar	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addre Ferminal Disclaimer Request for Refund CD, Number of CD(s) Limber of Pages in Submission do	Other Enclosure(s) (please Identify below): PTO/SB/08A, PTO/SB/08B, and copies of the cited reference A1-A7, B1-B5, C1-C16; Copies of International Search Repor (WO 02/001230 A3) and International Preliminary Examination
SIGNAT	TURE C	F APPLICANT. ATTORNI	EY, OR AGENT
Firm or Individual name Joseph Hyosuk Kim, Ph.D Reg. No. 41,425 JHK Law Signature		PF APPLICANT, ATTORNI	

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Substitute for form 1449/PTO

Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 1

Complete if Known				
Application Number	10/823,097			
Filing Date	04/13/2004			
First Named Inventor	BAMDAD, Cynthia C.			
Art Unit	1641			
Examiner Name	Pensee T. Do	_		
Attorney Docket Number	M1015.70013US01			

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (ff known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	^{US-} 5,137,827	08-11-1992	MROCZKOWSKI et al.	whole document
	A2	^{US-} 5,922,537	07-13-1999	EWART et al.	whole document
	A3	^{US-} 5,958,783	09-28-1999	JOSEL et al.	whole document
	A4	^{US-} 5,324,633	06-28-1994	FODOR et al.	whole document
	A5	^{US-} 5,512,131	04-30-1996	KUMAR et al.	whole document
	A6	^{US-} 5,620,850	04-15-1997	BAMDAD et al.	whole document
	A7	^{US-} 5,620,820	04-15-1997	BERTRAND et al.	whole document
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		FORE	IGN PATENT DOCL	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	Te
	B1	WO 98/31839 A2	07-23-1998	BAMDAD	whole document	
_	B2	WO 98/37421 A1	08-27-1998	MAGGIO et al.	whole document	
	B 3	WO 99/08695 A1	02-25-1999	GLABE et al.	whole document	
	B4	WO 00/43791 A2	07-27-2000	BAMDAD et al.	whole document	
	B5	WO 96/29629 A2	09-26-1996	WHITESIDES et al.	whole document	

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STATEMENT BY APPLICANT

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Sheet

Complete if Known				
Application Number	10/823,097			
Filing Date	04/13/2004			
First Named Inventor	BAMDAD, Cynthia C.			
Art Unit	1641			
Examiner Name	Pensee T. Do			
Attorney Docket Number	M1015.70013US01			

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	SIGAL et al., "Self-Assembled Monolayer for the Binding and Study of Histidine-Tagged Proteins by Surface Plasmon Resonance", Analytical Chemistry (1996), 68(3): 490-497	
	C2	TERZI et al., "Interaction of Alzheimer Beta-Amyloid Peptide(1-40) with Lipid Membranes", Biochemistry (1997), 36(48): 14845-14852	
	С3	LANSBURY, "Evolution of amyloid: What normal protein folding may tell us about fibrillogenesis and disease", Proc. Natl. Acad. Sci. USA (1999), 96: 3342-3344	
	C4	JARRETT et al., "The carboxy terminus of the beta amyloid protein is critical for the seeding of amyloid formation: implications for the pathogenesis of Alzheimer's disease", Biochemistry (1993), 32(18): 4693-4697	
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	C6	LAIBINIS et al., "Orthogonal Self-Assembled Monolayers: Alkanethiols on Gold and Alkane Carboxylic Acids on Alumina", Science (1989), 245: 845-847	
	C7	BAIN et al., "Formation of Monolayers by the Coadsorption of Thiols on Gold: Variation in the Length of the Alkyl Chain", J. Am. Chem. Soc. (1989), 111(18): 7164-7175	
	C8	BAIN et al., "Formation of Monolayers by the Coadsorption of Thiols on Gold: Variation in the Head Group, Tail Group, and Solvent", J. Am. Chem. Soc. (1989), 111(18): 7155-7164	
	С9	SANNA et al., "Localization of a Passively Transferred Human Recombinant Monoclonal Antibody to Herpes Simplex Virus Glycoprotein D to Infected Nerve Fibers and Sensory Neurons In Vivo", Journal of Virology (1999), 73(10): 8817-8823	
	C10	AKERSTROM et al., "Definition of IgG—and albumin-binding regions of streptococcal protein G", J. Biol. Chem. (1987), 262(28): 13388-13391	

Examiner		Date	•
Signature	,	Considered	

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO **Application Number** 10/823,097 INFORMATION DISCLOSURE Filing Date 04/13/2004 STATEMENT BY APPLICANT **First Named Inventor** BAMDAD, Cynthia C. Art Unit 1641 (Use as many sheets as necessary) **Examiner Name** Pensee T. Do Sheet Attorney Docket Number 2 2 M1015.70013US01 of

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C11	FAHNESTOCK et al., "Gene for an Immunoglobulin-Binding Protein from a Group G Streptococcus", Journal of Bacteriology (1986), 167(3): 870-880	
	C12	WOLFE et al., "Two transmembrane aspartates in presenilin-1 required for presenilin endoproteolysis and y-secretase activity", Nature (1999), 398: 513-517	
	C13	LEBLANC et al., "Role of amyloid precursor protein (APP): Study with antisense transfection of human neuroblastoma cells", J. Neurosci. Res. (1992), 31(4): 635-645 (abstract only)	
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